



Gulf of Mexico Harmful Algal Bloom Bulletin

20 June 2005

National Ocean Service

National Environmental Satellite, Data, and Information Service

Last bulletin: June 16, 2005

Conditions: A harmful algal bloom has been identified in Pinellas, Manatee, and Sarasota counties. Patchy low to moderate impacts likely along the coast. Patchy moderate impacts possible in bayside areas.

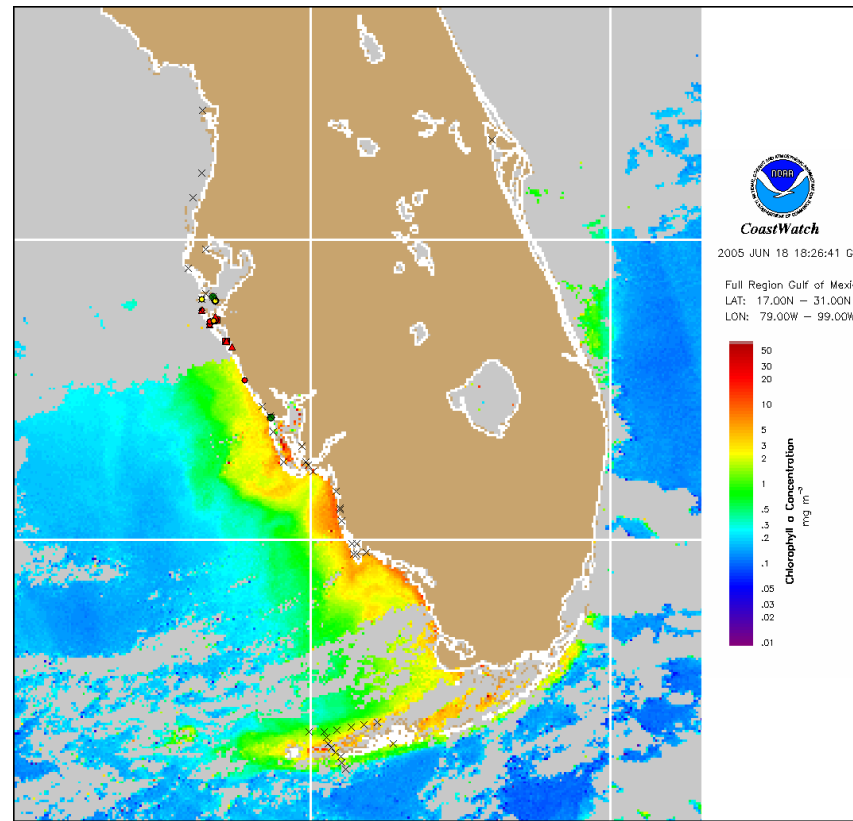
Analysis: The bloom has migrated further north, extending from Anna Maria Island to Clearwater Pier. Northern extents are obscured by clouds. Imagery on June 19 indicates that the southern most extent of the bloom is at 82° 44' W 27° 24' N along the coast. Fish kills and respiratory irritation were reported at Treasure Island, St. Petersburg Beach, and Anna Maria Island. Samples from last week indicate low to medium concentrations from Sarasota Bay to Clearwater. High concentrations of *K. Brevis* were reported at New Pass. A chlorophyll concentration of approximately 20 µg/L was found at 82° 47' W 27° 33' N, just south of St. Petersburg Beach. Respiratory irritation and fish kills have been reported at Venice. However, cell counts (June 13-16) and imagery do not indicate any *K. Brevis* at Venice Pier. A chlorophyll concentration of approximately 5 µg/L was found at 82° 34' W 27° 6' N, about 11 miles west of Venice Pier. North and northeasterly winds will likely decrease impacts to coastal areas Tuesday through Thursday. Northeasterlies throughout the week will likely slow northern transport. Intensification is possible with northeasterly winds.

High chlorophyll concentrations from Lely Barefoot Beach to just north of Naples are due to resuspension and nonharmful algae. Samples indicate no *K. Brevis*. Reports of discolored water are possible.

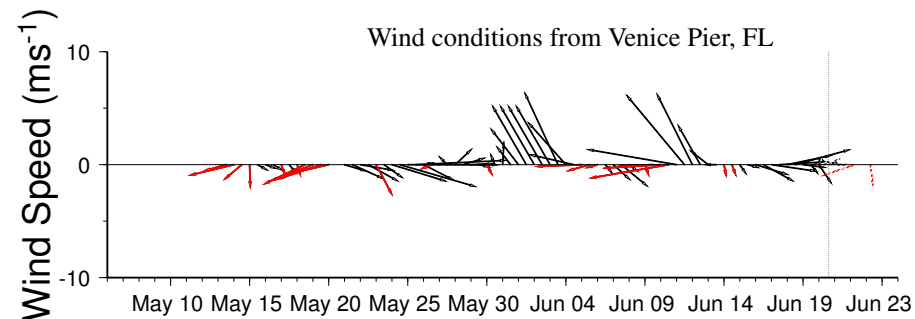
-Keller, Stolz

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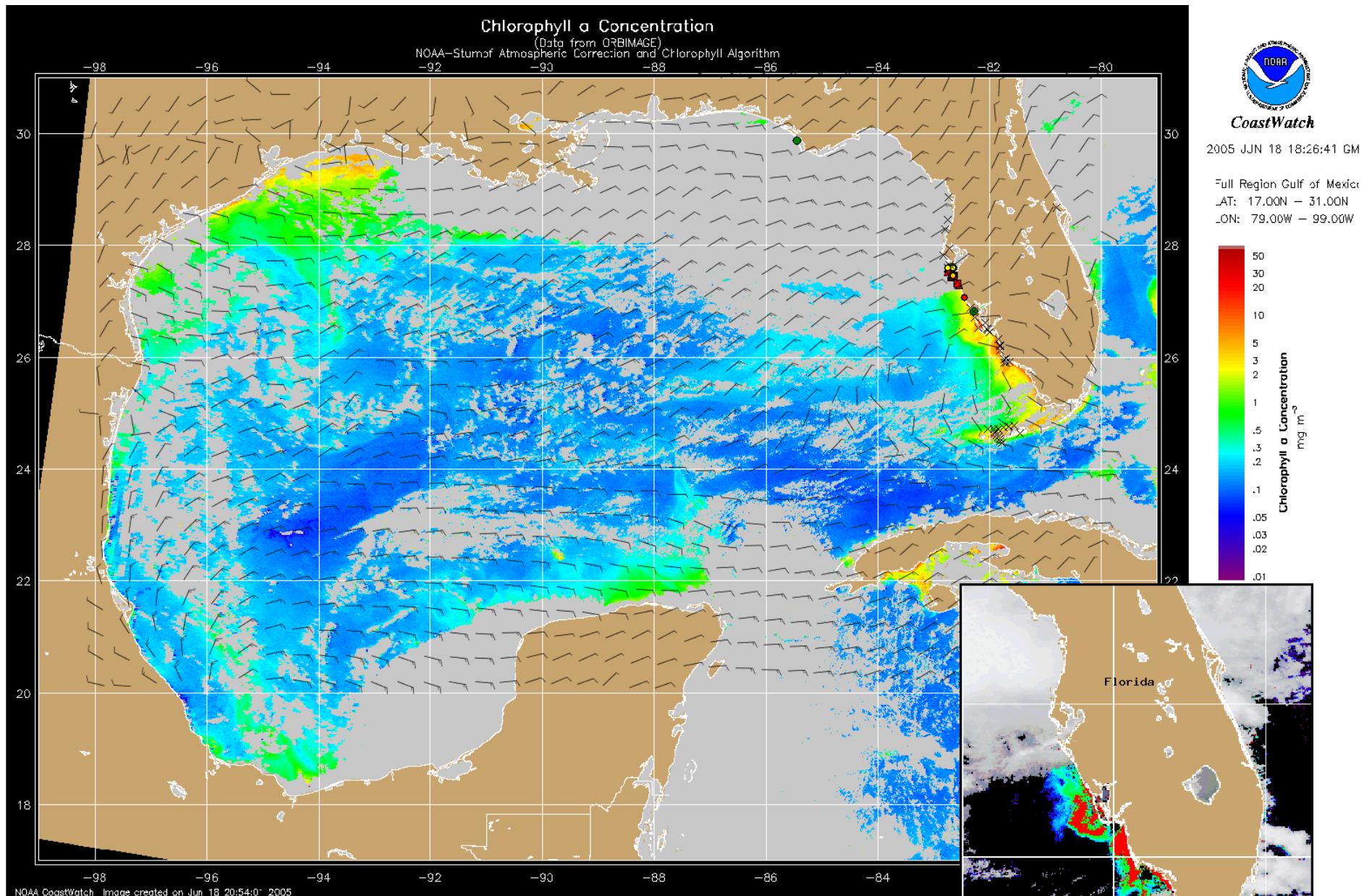


Chlorophyll concentration from satellite with possible HAB areas shown by red polygon(s). Cell concentration sampling data from June 3, 2005 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).



Wind speed and direction are averaged over 12 hours from measurements made on buoys. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

Northwest winds today at 5-10 knots (3-5m/s). North to northeasterly winds Tuesday through Thursday at 5-15 knots (3-8m/s).



Chlorophyll concentration from satellite and forecast winds for June 21, 2005 12Z with cell concentration sampling data from June 3, 2005 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).

Blooms shown in red (see p. 1 analysis and image for interpretation)

